PTO-1390 (Rev. 07-2005

Approved for use through 3/31/2007. OMB 0651-0021

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ATTORNEY'S DOCKET NUMBER TRANSMITTAL LETTER TO THE UNITED STATES 12096.PCT.US DESIGNATED/ELECTED OFFICE (DO/EO/US) U.S. APPLICATION NO (If known, see 37 CFR 1.5) **CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 INTERNATIONAL FILING DATE** PRIORITY DATE CLAIMED INTERNATIONAL APPLICATION NO. 22 September 2004 22 September 2003 PCT/US2004/031221 TITLE OF INVENTION **Tunneling Gap Diodes** APPLICANT(S) FOR DO/EO/US Artemi MARTSINOVSKY and Isaiah W COX Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31). X A copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). Amendments to the claims of the International Application under PCT-Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). X An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: 11. X An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 12. 13. X A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. A substitute specification. A power of attorney and/or change of address letter. 17. L A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. L A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Page 1 of 3

IAP20 Regulation 22 MAR 2006

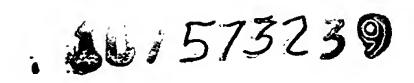
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U.S. APPLICATION NO. (if known, see 37 CFR 1.5)			INTERNATIONAL APPLICATION NO.		ATTORNEY'S DOCKET NUMBER		
401892098		PCT/US2004/031221		12096.PCT.US			
Other items or information: IPEA/US has not established the ISR Art 18(1) and Rule 42 of the PCT require that the ISR be established within 3 months from receipt of the search copy; notification of receipt of search copy was mailed by ISA/US on 09 Aug 2004. Applicant has therefore not included fees under sections 22 & 23 below.							
	ing fees have b	CALCULATIONS	PTO USE ONLY				
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22. 💢 Examin							
If the written opinion by IPEA/US All other situations	Sindicates all cl	\$					
If the written opinion IPEA/US in Search fee (37 CFF International Search	dicates all claim 1.445(a)(2)) ha I Searching Au Report prepart communicated to	\$					
TO	OTAL OF 21, 22	300					
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. Total Sheets Extra Sheets Number of each additional 50 or fraction RATE							
- 100 =	/50 =		up to a whole number)	× \$250	` \$		
Surcharge of \$130. after the date of cor	00 for furnishing	\$					
CLAIMS	NUMB	ER FILED NUMBER EXTRA RATE		\$			
Total claims	1	4 - 20 =	0	× \$ 50	\$		
Independent claims 3 - 3 =		0	x \$200	\$			
MULTIPLE DEPEN	DENT CLAIM(S	\$ 300					
X Applicant claim	s small entity st	\$					
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½. SUBTOTAL = \$ 150							
Processing fee of \$ claimed priority date		\$ 150					
		\$					
Fee for recording the by an appropriate c		\$					
		\$ 150					
					Amount to be refunded:	\$	
					Amount to be charged	\$	



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Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PFO=2038. NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.							
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